

Report Documentation Page			Form Approved OMB No. 0704-0188		
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE <b>21 JUN 2012</b>		2. REPORT TYPE <b>Briefing Charts</b>		3. DATES COVERED <b>01-06-2012 to 20-06-2012</b>	
4. TITLE AND SUBTITLE <b>MEC-V Survivability Demonstration</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S) <b>Anthony Dolan</b>				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>U.S. Army TARDEC ,6501 E.11 Mile Rd,Warren,MI,48397-5000</b>				8. PERFORMING ORGANIZATION REPORT NUMBER <b>#23032</b>	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) <b>U.S. Army TARDEC, 6501 E.11 Mile Rd, Warren, MI, 48397-5000</b>				10. SPONSOR/MONITOR'S ACRONYM(S) <b>TARDEC</b>	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S) <b>#23032</b>	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release; distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>For TARDEC Ground System Survivability Advanced Planning Briefing to Industry</b>					
14. ABSTRACT <b>Explore the capabilities to protect the M1151 HMMWV platform against emerging Threshold and Objective underbody threats</b>					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>Public Release</b>	18. NUMBER OF PAGES <b>2</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			



**TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.**

# MEC-V Survivability Demonstration

Anthony Dolan  
Program Lead  
Ground System Survivability  
United States Army RDECOM-TARDEC

Distribution A: Approved for public release;  
distribution is unlimited.



## Purpose:

- Explore the capabilities to protect the M1151 HMMWV platform against emerging Threshold and Objective underbody threats
- Compare and contrast several Industry vehicle designs to determine design characteristics that contribute to a reduction in occupant injury during underbody events
- Assess various potential blast mitigating technologies for Light Tactical Vehicle (LTV) platforms and their corresponding TRL
- Upgrade RDECOM's underbody event reconstruction and "excursion" M&S capabilities with respect to LTV platforms

## Product(s):

- Final report detailing design methodologies that provide increased occupant protection during underbody events
- System level test and evaluation reports for several LTV vehicle systems
- M&S results for reconstruction of actual test events, as well as results for underbody excursions above the objective level

## Payoff:

- Demonstrate the "what's possible" with regards to light vehicle platforms (~18,500 lbs) and underbody protection
- Provide US Army data on technologies/techniques critical to the success of a vehicle system against underbody threats
- Further refine and improve the Army's M&S capabilities and aid with future R&D efforts with respect to LTV underbody technologies
- Demonstrate TRLs of advanced underbody individual technologies

## Schedule & Cost

Milestones	FY12	FY13	FY14
Acquisition Decision Memorandum	◆		
Release SOW and Evaluate Offers	■		
Award contracts to 6 contractors		◆	
Conduct Start of Work Meetings and Test Readiness Reviews		■	
Assets Arrive at Test Facility		◆	
Conduct Testing		■	
Complete Testing and Write Report			◆
Concurrent M&S Studies	■	■	■
<b>TOTAL: \$22M (6.4)</b>	<b>22.0</b>		